



STUDYDADDY

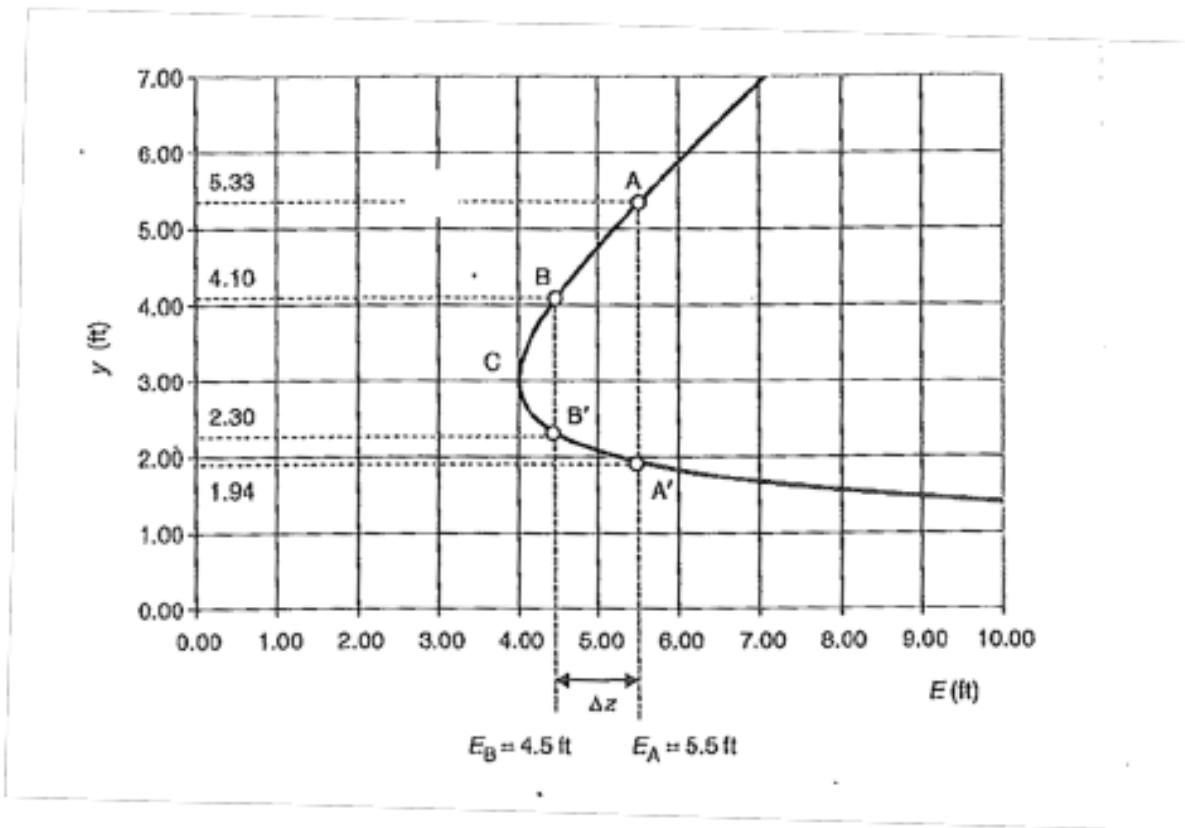
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Problem:

The specific energy diagram shown below (for a constant discharge of 290 cfs) has been developed for sections A and B in a trapezoidal channel. The channel has a bottom width of 6ft and a side slope of 2. The channel is nearly horizontal, except that there is a smooth, short step rise of 1.0 ft in the channel bottom. The energy loss due to the step is negligible. The flow depths at sections A and B have been determined to be 5.33 ft and 4.10 ft, respectively.

From the specific energy diagram, determine the minimum specific energy needed at Section B to pass 290 cfs through this section? What is the corresponding specific energy at A? Does the flow have adequate specific energy at A to sustain 290 cfs?





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